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Site:	_____
Break:	3-10
Other:	_____

TES
Carrier Air Conditioning Site

BVWST Project 45256.001
June 10, 1991

Ms. Beth Brown
US EPA Region IV
Superfund Section
345 Courtland Street
Atlanta, Georgia 30365

Subject: Overview of Draft RI Chemical Data
Carrier Air Conditioning Site
Collierville, Shelby County, TN

Dear Ms. Brown:

As part of the overview of the Carrier Air Conditioning Site Draft RI Report, the TES oversight contractor was tasked to compare approximately 10 percent of the analytical data contained in the report with the corresponding raw data obtained from the laboratory analyses. The following report details amounts of samples overviewed, and any observations or irregularities that were noted. The sample numbers listed are those designated as the Sample ID in the report tables, and are summarized in Table 1.

Four organic and four inorganic samples from the Phase I Soil Data (Appendix B) were reviewed. In Sample B37-3, potassium is listed as 265000 BDL, and it should be an actual hit. Similarly, in Sample B37-2, sodium is listed as 321000 BDL, and it should be a hit.

Two organic and two inorganic samples from the Phase I Groundwater Data (Appendix C) were reviewed. In the East City Well data, lead is listed as 5.5W, and the raw data shows that lead should have a U qualifier. The two organic groundwater samples reviewed did not correspond with the raw data. An example of the problems noted in all the organic samples reviewed is shown in Table 2. These problems are most likely the result of computer error, but the contents of this appendix should be exhaustively proofread against the analytical data sheets contained in Appendix Q.

The TCE and DCE data for fifty-seven of the historical monitoring wells was reviewed (Appendix D). The TCE value for Sample MW-01 (April 27, 1988) is listed as 220 ppb, but is 280 ppb in the raw data. Sample MW-01 (February 16, 1989) lists TCE as 300 ppb and DCE as 35 ppb; however,



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the raw data lists TCE as 630 ppb and DCE as 395 ppb. In many cases monitoring wells could not be sampled due to a lack of water. However, the tables list these samples as a zero value. This notation should be explained in future reports.

Two organic and two inorganic samples from Phase II Soil Data (Appendix G) were reviewed. No discrepancies in the data were noted.

Seven samples from Phase II Groundwater Data (Appendix H) were reviewed. This review included both 2nd and 3rd quarter groundwater sampling events. No problems were noted with 2nd quarter data. In 3rd quarter data, Sample 08179019 should list a lead value of 225 ug/l. Sample 08179023 should list a lead value of 216 ug/l, and a potassium value of 1050 ug/l. Also Sample 08179035 should list methylene chloride = 0.9BJ ug/l, acetone = 20 ug/l, and TCE = 5BJ ug/l.

Two background well samples (Appendix J) were reviewed. No discrepancies in the data were noted.

One surface water sample (Appendix M) was reviewed. No discrepancies in this sample were noted, although raw data could not be located for some of the other samples in the appendix.

One organic and one inorganic City Well Sample (Appendix N) was reviewed. The inorganic sample listed potassium as a BDL value, and it should be a hit with a value of 1120 ug/l.

Two private well samples (Appendix O) were reviewed. No discrepancies were noted in this data.

It is our recommendation to the remedial contractor that these comments be addressed in the Final RI Report, with a particular emphasis on proofreading Phase I groundwater data.

Very truly yours,

B&V WASTE SCIENCE AND TECHNOLOGY CORP.

Jancie Hatcher

Jancie Hatcher
Chemist

pem

cc: Jane Penny, Dynamac

TABLE I

<u>APPENDIX¹</u>	<u>ORGANIC SAMPLES</u>	<u>INORGANIC SAMPLES</u>	<u>WELLS IN SAMPLING EVENTS²</u>
B	B37-1, B39-1, B39-5, B40-2	B37-2, B37-3, B40-2, B40-4	
C	MW-16, MW-21	MW-10 East City Well	
D			September 15, 1986 November 3, 1986 July 9, 1987 April 27, 1988 January 21, 1988 July 26-27, 1988 August 29-30, 1988 February 16-17, 1989
G	B45-1, B49-11	MW27-12, MW43-9	
H	05169003, 05189012 08179019, 08179023 08179035	05169001, 05189010 Same as organic	
J	083090-CWM-001	083090-CWM-002	
M	DSS-1		
N	082190CW5	082190CW2	
O	PW-107	PW-105	

¹ Appendices included in Draft RI Report.

² Includes all wells in the listed sampling event.

TABLE 2
ORGANIC GROUNDWATER SAMPLE MW-16

<u>CHEMICAL</u>	<u>VALUE GIVEN IN TABLE¹</u>	<u>VALUE IN RAW DATA</u>
Benzene	1U	5U
Bromoform	1U	5U
Carbon tetrachloride	1U	5U
Chlorobenzene	1U	5U
Dibromochloromethane	1U	5U
Chloroethane	1U	10U
etc.		

¹ Reference table in Appendix C of the Draft RI Report.